

## Storm Data and Unusual Weather Phenomena - December 2012

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|--|--------------------|-------------------|---------------------|------------------------------|
| <b>TEXAS, North</b>  |                    |                   |                     |                              |
| (TX-Z091) MONTAGUE, (TX-Z092) COOKE, (TX-Z093) GRAYSON, (TX-Z094) FANNIN, (TX-Z095) LAMAR, (TX-Z100) YOUNG, (TX-Z101) JACK, (TX-Z102) WISE, (TX-Z103) DENTON, (TX-Z104) COLLIN, (TX-Z105) HUNT, (TX-Z106) DELTA, (TX-Z107) HOPKINS, (TX-Z115) STEPHENS, (TX-Z116) PALO PINTO, (TX-Z117) PARKER, (TX-Z118) TARRANT, (TX-Z119) DALLAS, (TX-Z120) ROCKWALL, (TX-Z121) KAUFMAN, (TX-Z123) RAINS, (TX-Z129) EASTLAND, (TX-Z130) ERATH, (TX-Z131) HOOD, (TX-Z132) SOMERVELL, (TX-Z133) JOHNSON, (TX-Z134) ELLIS, (TX-Z141) COMANCHE, (TX-Z142) MILLS, (TX-Z143) HAMILTON, (TX-Z144) BOSQUE, (TX-Z145) HILL, (TX-Z146) NAVARRO, (TX-Z147) FREESTONE, (TX-Z156) LAMPASAS, (TX-Z157) CORYELL, (TX-Z158) BELL, (TX-Z159) MCLENNAN, (TX-Z160) FALLS, (TX-Z161) LIMESTONE, (TX-Z174) MILAM |                    |                   |                     |                              |
|  | 12/01/12 00:00 CST |                   | 0                   | Drought                      |
|  | 12/31/12 23:59 CST |                   | 98K                 |                              |
| Severe to extreme drought conditions expanded across North Texas as rainfall remained below normal for the month of December. A few of the counties southwest of the Dallas-Fort Worth metro area had deteriorated to D4/Exceptional drought severity by the middle of the month. The least impacted locations were east and southeast of the Dallas-Fort Worth area where precipitation totals, though still below normal, generally exceeded those of their western neighbors.   |                    |                   |                     |                              |
| (TX-Z145) HILL, (TX-Z158) BELL, (TX-Z159) MCLENNAN, (TX-Z160) FALLS  |                    |                   |                     |                              |
|  | 12/06/12 05:00 CST |                   | 14K                 | Dense Fog                    |
|  | 12/06/12 08:00 CST |                   | 0                   |                              |
| Dense fog occurred across the region on December 6th. The moisture associated with the fog caused the tops of at least 60 utility poles in Bell, Falls, Hill, and McLennan counties to catch fire. The phenomenon is called "tracking" and occurs when dust that has accumulated on the insulators of utility poles reacts with the moisture in the fog. According to experts, the moisture acted as a conductor causing the poles to catch fire.  |                    |                   |                     |                              |
| <b>HENDERSON COUNTY --- 4.3 SSE ATHENS JONES ARPT [32.11, -95.81]</b>  |                    |                   |                     |                              |
|  | 12/09/12 14:55 CST |                   | 0                   | Hail (1.25 in)               |
|  | 12/09/12 14:55 CST |                   | 0                   | Source: Public               |
| Half dollar sized hail was reported on FM 4612 south of Athens.  |                    |                   |                     |                              |
| A storm near Athens in Henderson County produced hail up to 1.25" in diameter.   |                    |                   |                     |                              |
| (TX-Z162) LEON, (TX-Z175) ROBERTSON  |                    |                   |                     |                              |
|  | 12/18/12 00:00 CST |                   | 0                   | Drought                      |
|  | 12/31/12 23:59 CST |                   | 5K                  |                              |
| The southeastern counties of North Texas were spared the worst of the drought, but still fell into D2/Severe drought conditions during the second half of the month.   |                    |                   |                     |                              |
| <b>DENTON COUNTY --- 2.4 ESE LITTLE ELM [33.13, -96.93]</b>  |                    |                   |                     |                              |
|  | 12/19/12 20:30 CST |                   | 0                   | Hail (0.88 in)               |
|  | 12/19/12 20:30 CST |                   | 0                   | Source: Amateur Radio        |
| Dime to nickel sized hail was reported at Hidden Cove Park at Lake Lewisville.   |                    |                   |                     |                              |
| <b>DALLAS COUNTY --- 2.2 SW ALPHA [32.91, -96.83]</b>  |                    |                   |                     |                              |
|  | 12/19/12 20:57 CST |                   | 0                   | Hail (0.75 in)               |
|  | 12/19/12 20:57 CST |                   | 0                   | Source: Trained Spotter      |
| Penny sized hail was reported at Forest Lane and Welch Road in Dallas.   |                    |                   |                     |                              |
| <b>DALLAS COUNTY --- (DAL)LOVE FLD DALLAS [32.85, -96.85]</b>  |                    |                   |                     |                              |
|  | 12/19/12 20:59 CST | 5K                |                     | Thunderstorm Wind (MG 57 kt) |
|  | 12/19/12 20:59 CST | 0                 |                     | Source: ASOS                 |
| Dallas Love Field (KDAL) measured a 66 MPH wind gust.  |                    |                   |                     |                              |
| <b>DALLAS COUNTY --- 1.0 S MOUNTAIN CREEK LAKE [32.71, -96.95]</b>   |                    |                   |                     |                              |
|  | 12/19/12 21:00 CST | 5K                |                     | Thunderstorm Wind (EG 52 kt) |
|  | 12/19/12 21:00 CST | 0                 |                     | Source: Trained Spotter      |

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|--|-----------|-------------------|---------------------|------------------------|
| A trained spotter estimated 60-65 MPH winds on Mountain Creek Parkway. |           |                   |                     |                        |

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### DALLAS COUNTY --- 2.4 SE RICHARDSON [32.93, -96.69]

|                    |    |                              |
|--------------------|----|------------------------------|
| 12/19/12 21:10 CST | 5K | Thunderstorm Wind (EG 52 kt) |
| 12/19/12 21:10 CST | 0  | Source: Trained Spotter      |

A trained spotter estimated 60 MPH winds near the Garland/Richardson border.

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### COLLIN COUNTY --- COPEVILLE [33.08, -96.42]

|                    |       |                              |
|--------------------|-------|------------------------------|
| 12/19/12 21:30 CST | 0.15M | Thunderstorm Wind (EG 65 kt) |
| 12/19/12 21:30 CST | 0     | Source: Broadcast Media      |

Strong thunderstorm winds rolled a mobile home onto its top in the community of Copeville. No one was home at the time of the incident. Other substantial wind damage was reported in Copeville including the exterior metal roof of another mobile home was also peeled off. Outbuildings, sheds, playground equipment, trees, and fences were also damaged in the community.

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### (TX-Z102) WISE, (TX-Z104) COLLIN, (TX-Z135) HENDERSON

|                    |        |                         |
|--------------------|--------|-------------------------|
| 12/19/12 21:45 CST | 33.50K | Strong Wind (MAX 43 kt) |
| 12/20/12 03:01 CST | 0      |                         |

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### HUNT COUNTY --- 0.9 NNE GREENVILLE [33.14, -96.11]

|                    |    |                              |
|--------------------|----|------------------------------|
| 12/19/12 21:50 CST | 5K | Thunderstorm Wind (EG 39 kt) |
| 12/19/12 21:50 CST | 0  | Source: Newspaper            |

The 30-foot Christmas tree outside the police station in Greenville was knocked over by strong thunderstorm winds. The tree was not replaced. At least one other tree was knocked down in Greenville. The nearest automated weather station at Major Field Municipal Airport (KGVF) reported 43 mph winds with the storms.

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### KAUFMAN COUNTY --- KAUFMAN [32.58, -96.32]

|                    |    |                              |
|--------------------|----|------------------------------|
| 12/19/12 21:50 CST | 8K | Thunderstorm Wind (EG 59 kt) |
| 12/19/12 21:50 CST | 0  | Source: Trained Spotter      |

A trained spotter estimated 65 to 70 mph winds between 950 pm and 10 pm in Kaufman.

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### KAUFMAN COUNTY --- KAUFMAN [32.58, -96.32]

|                    |   |                         |
|--------------------|---|-------------------------|
| 12/19/12 21:56 CST | 0 | Hail (1.00 in)          |
| 12/19/12 21:56 CST | 0 | Source: Trained Spotter |

Dime to quarter sized hail was reported in Kaufman.

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### NAVARRO COUNTY --- 1.9 S RICE [32.20, -96.50]

|                    |    |                              |
|--------------------|----|------------------------------|
| 12/19/12 22:05 CST | 1K | Thunderstorm Wind (EG 52 kt) |
| 12/19/12 22:05 CST | 0  | Source: Trained Spotter      |

A trained spotter estimated 60 mph winds approximately 2 miles south of Rice on NW 0150/Ranch Road.

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### VAN ZANDT COUNTY --- EDGEWOOD [32.70, -95.88]

|                    |     |                              |
|--------------------|-----|------------------------------|
| 12/19/12 22:17 CST | 30K | Thunderstorm Wind (EG 61 kt) |
| 12/19/12 22:17 CST | 0   | Source: Law Enforcement      |

Very strong thunderstorm winds damaged 3 homes, 2 barns, a gas station, and a tire store in Edgewood. At the tire store, part of the roof facade was torn off and hanging in front of the building. In addition, many tree limbs and trees were knocked down. Several carports were also damaged.

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### NAVARRO COUNTY --- 1.4 WNW POWELL [32.13, -96.35]

|                    |   |                              |
|--------------------|---|------------------------------|
| 12/19/12 22:22 CST | 0 | Thunderstorm Wind (EG 50 kt) |
| 12/19/12 22:22 CST | 0 | Source: Emergency Manager    |

Trees and large tree limbs were knocked down by thunderstorm winds on FM 1129, north of Highway 31 near Roane.

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### HOPKINS COUNTY --- SULPHUR SPGS MUNI AR [33.15, -95.62]

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|          | 12/19/12 22:23 CST |                   | 5K                  | Thunderstorm Wind (MG 54 kt) |
|          | 12/19/12 22:23 CST |                   | 0                   | Source: AWOS                 |

Sulphur Springs Municipal Airport (KSLR) measured a 62 MPH thunderstorm wind gust.

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### HENDERSON COUNTY --- 4.2 N ATHENS [32.26, -95.85]

|                    |    |                                |
|--------------------|----|--------------------------------|
| 12/19/12 23:00 CST | 1K | Thunderstorm Wind (EG 50 kt)   |
| 12/19/12 23:00 CST | 0  | Source: Department of Highways |

TXDOT reported trees were knocked down, blocking Highway 19 north of Athens.

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### ANDERSON COUNTY --- 1.0 NE NECHES [31.88, -95.49]

|                    |   |                              |
|--------------------|---|------------------------------|
| 12/19/12 23:47 CST | 0 | Thunderstorm Wind (EG 50 kt) |
| 12/19/12 23:47 CST | 0 | Source: Law Enforcement      |

Thunderstorm winds knocked down trees off FM 19 near Neches.

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### ANDERSON COUNTY --- 5.1 NW ELKHART [31.67, -95.64], 3.7 NNE ELKHART [31.67, -95.56]

|                    |   |                              |
|--------------------|---|------------------------------|
| 12/19/12 23:52 CST | 0 | Thunderstorm Wind (EG 50 kt) |
| 12/19/12 23:59 CST | 0 | Source: Law Enforcement      |

Trees were knocked down off FM 322 to CR 157; northwest to northeast of Elkhart.

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### (TX-Z158) BELL, (TX-Z159) MCLENNAN

|                    |     |          |
|--------------------|-----|----------|
| 12/20/12 11:00 CST | 88K | Wildfire |
| 12/20/12 21:00 CST | 1   | 0        |

A line of thunderstorms developed ahead of a cold front that was moving across the region. These thunderstorms produced mostly wind damage across the eastern half of the CWA. The most significant damage was reported in Collin County where a mobile home was rolled onto its top. In addition to the thunderstorm winds, very strong winds behind the front continued into the following day. Sustained winds of 20 to 30 mph were common with wind gusts over 50 mph in some locations. These winds caused many power outages across the region and some additional minor damage. Also, the strong winds fueled 2 grass fires which caused some property damage in Bell and McLennan Counties.

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### (TX-Z117) PARKER

|                    |     |          |
|--------------------|-----|----------|
| 12/22/12 12:00 CST | 0   | Wildfire |
| 12/22/12 12:00 CST | 50K |          |

On December 22, extremely dry conditions in combination with gusty winds fueled a fire in the town of Reno, destroying more than \$50,000 worth of hay.

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### TARRANT COUNTY --- 2.2 W SUBLETT [32.65, -97.17]

|                    |   |                      |
|--------------------|---|----------------------|
| 12/25/12 02:10 CST | 0 | Hail (0.88 in)       |
| 12/25/12 02:10 CST | 0 | Source: NWS Employee |

An off-duty NWS employee reported nickel sized hail 2 miles south of I-20 and Park Springs Road in Arlington.

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### ANDERSON COUNTY --- PALESTINE [31.75, -95.63]

|                    |   |                           |
|--------------------|---|---------------------------|
| 12/25/12 08:25 CST | 0 | Hail (0.88 in)            |
| 12/25/12 08:25 CST | 0 | Source: Emergency Manager |

Nickel sized hail was reported in Palestine.

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### ANDERSON COUNTY --- 5.3 SE SLOCUM [31.58, -95.41]

|                    |   |                           |
|--------------------|---|---------------------------|
| 12/25/12 08:30 CST | 0 | Hail (1.00 in)            |
| 12/25/12 08:30 CST | 0 | Source: Emergency Manager |

Quarter sized hail was reported near Mound City.

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### (TX-Z102) WISE

|                    |       |                |
|--------------------|-------|----------------|
| 12/25/12 11:45 CST | 0.15M | Winter Weather |
| 12/25/12 16:30 CST | 0     |                |

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| <hr/>                              |  |                   |                     |                        |
| (TX-Z103) DENTON, (TX-Z104) COLLIN | 12/25/12 12:45 CST   |                   | 1.05M               | Heavy Snow             |
|                                    | 12/25/12 18:00 CST   |                   | 0                   |                        |
|                                    | <p>A strong upper level system and cold front first brought hail-producing thunderstorms to the region, then a winter weather event that included snow and sleet. The storms produced lots of pea sized hail and occasionally slightly larger hail. The snow fell generally north of a line from Breckenridge to Palestine. The greatest concentration of heavy snow was in western Denton County and Collin County where 4-6" of snow fell. There were also isolated locations that received 4-6" of snow in Parker, Grayson, Fannin, Hunt, and Emory counties. The overall impacts from the sleet and snow were minimal but there were the usual impacts to transportation in the region when the snow froze on area roads that night; especially on elevated roadways, bridges, and overpasses.</p> |                   |                     |                        |
| <hr/>                              |  |                   |                     |                        |
| (TX-Z119) DALLAS                   | 12/26/12 08:00 CST   | 2                 | 0                   | Cold/Wind Chill        |
|                                    | 12/26/12 08:00 CST   |                   | 0                   |                        |

Direct Fatalities: F50OU, M60OU

Two homeless people in the city of Dallas died from hypothermia as temperatures plunged into the lower 20s and wind chills fell into the teens. A 50-year old woman and a 60-year old man were found in different locations of the city, but both were found outside.